- (1) Pendulum acceleration, CFC 180,
- (2) Pendulum D-plane rotation (if transducer is used), CFC 60,
- (3) Torso flexion pulling force (if transducer is used), CFC 60,
 - (4) Head acceleration, CFC 1000,
- (5) Neck forces, upper and lower, CFC 1000,
- (6) Neck moments, upper and lower, CFC 600,
 - (7) Thorax CG acceleration, CFC 180,
 - (8) Sternum deflection, Class 600,
- (9) Sternum and rib accelerations, Class 1000.
 - (10) Spine accelerations, CFC 180,
 - (11) Lumbar forces, CFC 1000,
 - (12) Lumbar moments, CFC 600,
 - (13) Shoulder forces, CFC 180,
 - (14) Pelvis accelerations, CFC 1000,
 - (15) Iliac forces, CFC 180,
- (16) Femur and tibia forces, CFC 600,
- (17) Femur and tibia moments, CFC 600.
- (d) Coordinate signs for instrumentation polarity are to conform to SAE In-

formation Report J1733 (incorporated by reference, see §572.170).

- (e) The mountings for sensing devices have no resonant frequency less than 3 times the frequency range of the applicable channel class.
- (f) Limb joints are set at one G, barely restraining the weight of the limb when it is extended horizontally. The force needed to move a limb segment is not to exceed 2G throughout the range of limb motion.
- (g) Performance tests of the same component, segment, assembly, or fully assembled dummy are separated in time by not less than 30 minutes unless otherwise noted.
- (h) Surfaces of dummy components may not be painted except as specified in this subpart or in drawings subtended by this subpart.

APPENDIX—FIGURES TO SUBPART T OF PART 572

FIGURE T1 HEAD DROP TEST SET-UP SPECIFICATIONS

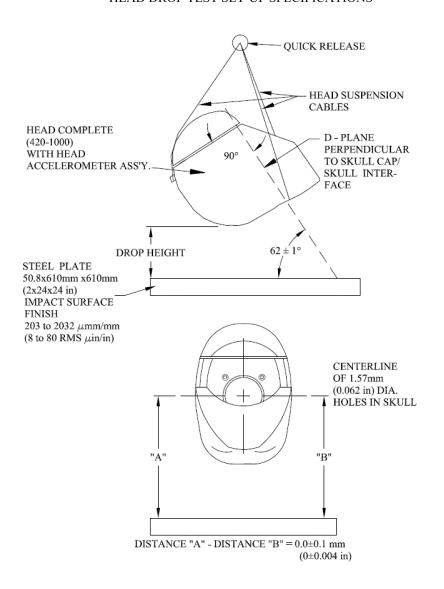


FIGURE T2
NECK FLEXION TEST SET-UP SPECIFICATIONS

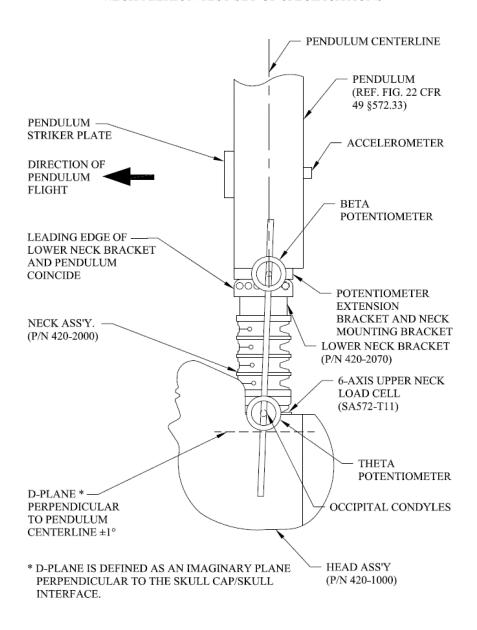


FIGURE T3
NECK EXTENSION TEST SET-UP SPECIFICATIONS

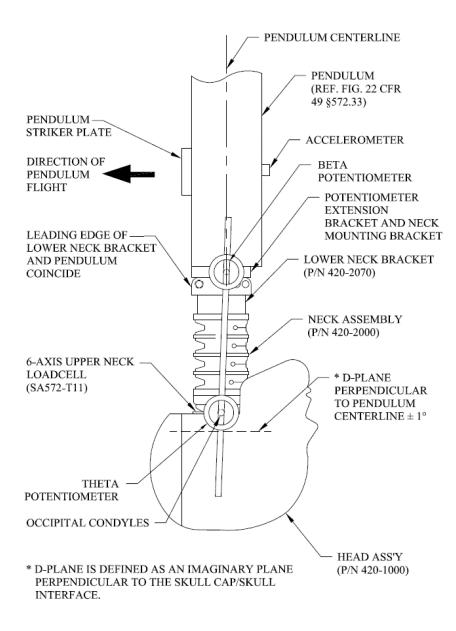
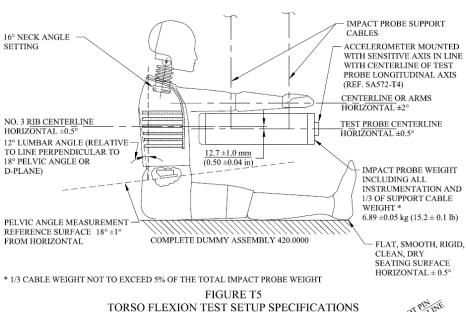


FIGURE T4 THORAX IMPACT TEST SET-UP SPECIFICATIONS



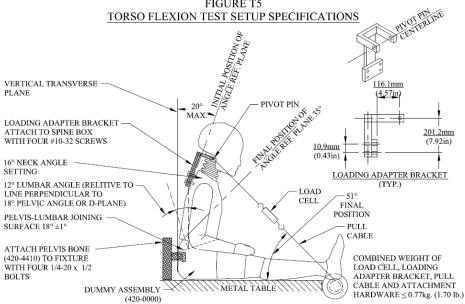
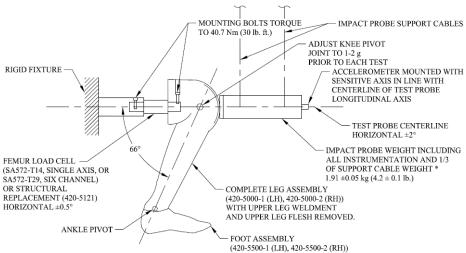


FIGURE T6 KNEE IMPACT TEST SET-UP SPECIFICATIONS



* 1/3 CABLE WEIGHT NOT TO EXCEED 5% OF THE TOTAL IMPACT PROBE WEIGHT

Subpart U, ES-2re Side Impact Crash Test Dummy, 50th Percentile Adult Male

SOURCE: 71 FR 75331, Dec. 14, 2006, unless otherwise noted.

§ 572.180 Incorporated materials.

- (a) The following materials are hereby incorporated into this Subpart by reference:
- (1) A parts/drawing list entitled, "Parts/Drawings List, Part 572 Subpart U, Eurosid 2 with Rib Extensions (ES2re), September 2009," incorporated by reference in §572.181.
- (2) A drawings and inspection package entitled "Parts List and Drawings, Part 572 Subpart U, Eurosid 2 with Rib Extensions (ES-2re, Alpha Version), September 2009," consisting of:
- (i) Drawing No. 175-0000, ES-2re Dummy Assembly, incorporated by reference, see §§ 572.181, 575.182, 572.184;
- (ii) Drawing No. 175–1000, Head Assembly, incorporated by reference in §§ 572.181 and 572.182;
- (iii) Drawing No. 175–2000, Neck Assembly Test/Cert, incorporated by reference in §§ 572.181 and 572.183;

- (iv) Drawing No. 175–3000, Shoulder Assembly, incorporated by reference in §§ 572.181 and 572.184;
- (v) Drawing No. 175–3500, Arm Assembly, Left, incorporated by reference in §§ 572.181 and 572.185;
- (vi) Drawing No. 175–3800, Arm Assembly, Right, incorporated by reference in §§ 572.181, and 572.185;
- (vii) Drawing No. 175-4000, Thorax Assembly with Rib Extensions, incorporated by reference in §§ 572.181 and 572.185;
- (viii) Drawing No. 175-5000, Abdominal Assembly, incorporated by reference in §§ 572.181 and 572.186;
- (ix) Drawing No. 175-5500, Lumbar Spine Assembly, incorporated by reference in §§ 572.181 and 572.187;
- (x) Drawing No. 175-6000, Pelvis Assembly, incorporated by reference in §§ 572.181 and 572.188;
- (xi) Drawing No. 175–7000–1, Leg Assembly—left incorporated by reference in §572.181;
- (xii) Drawing No. 175–7000–2, Leg Assembly—right incorporated by reference in §572.181;